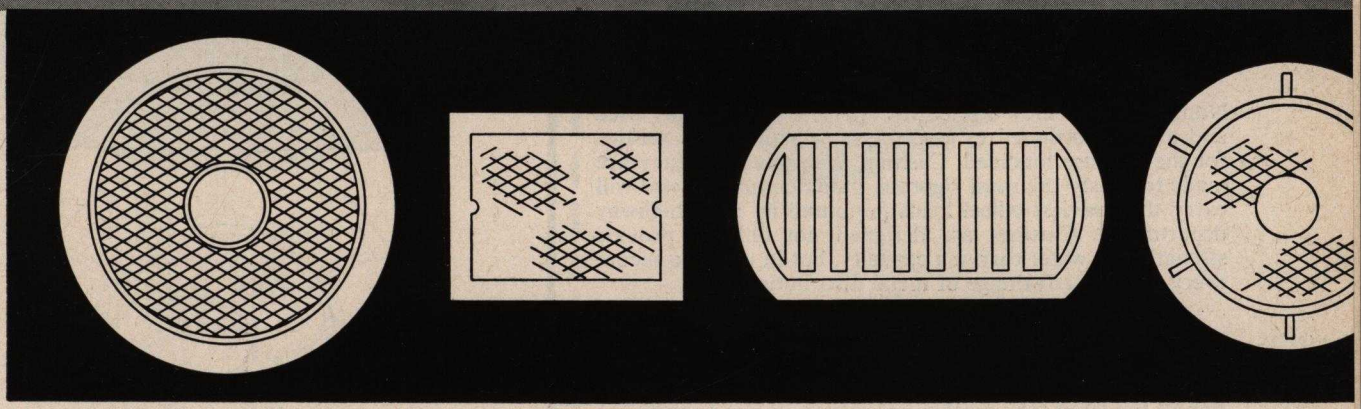
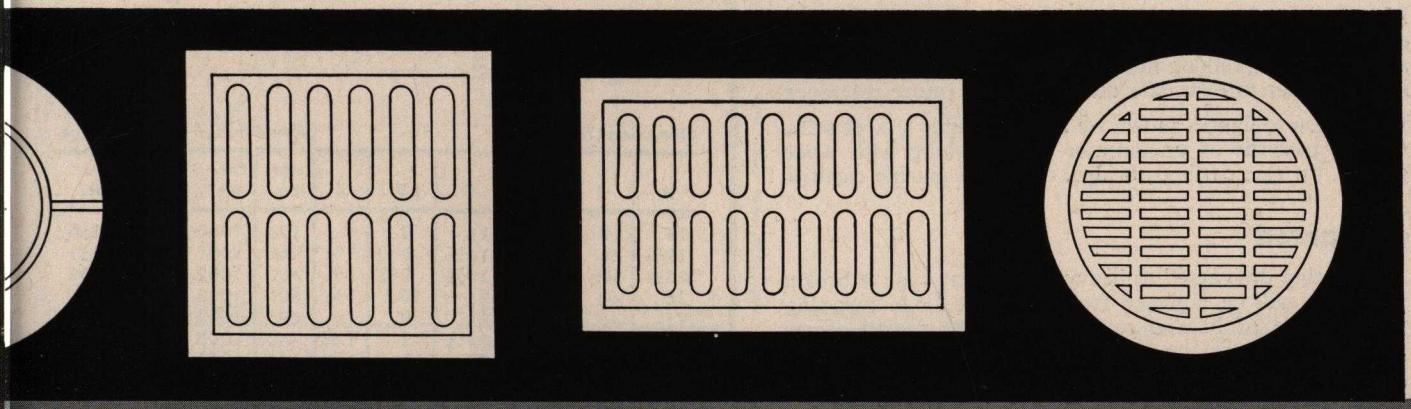
6i
Ca

standard casting designs



highway • drainage • sewer



Campbell Foundry Company
HARRISON, NEW JERSEY

CAMPBELL
FOUNDRY COMPANY

CONSTRUCTION CASTINGS

material

Castings are made of best quality gray cast iron under direct supervision of well organized production and metallurgical departments. Test bars are made of each and every heat and can be furnished to purchasers of castings with chemical analysis if requested.

Castings are made to conform to A.S.T.M. specifications A-48-56 Class—30 iron which is most satisfactory for construction use. For unusual conditions, castings can be furnished of higher test material of ductile iron made under "Inco" license.

design

Numbers listed show standard designs most generally used and are proportioned to give the most satisfactory service for the purpose intended. Castings designated as heavy are made to satisfy the most rigorous traffic conditions and will carry the heaviest wheel loads permitted by state highway departments. Castings are designed not only to provide strength and water carrying capacity, but in order to secure every possible advantage of metal distribution.

workmanship

In order to produce castings of the highest quality, installation of the latest type mechanical moulding, sand conditioning and melting equipment has been carried out. Pattern equipment of our entire line has been redesigned and arranged for mechanical moulding which produces castings of accurate fit, trueness to pattern and neatness in appearance.

When specified, bearing surfaces on most castings shown can be machined.

standards

Most listings shown herein are of standard design and generally available from stock. It is our suggestion to engineers and architects, catalog numbers be specified wherever possible in order to eliminate delays and for future reference.

In addition to figures shown we have available a large selection of patterns of uncommon designs along with wheel guards, furnace castings, bridge, dock and marine castings.

guarantee

Any casting designated as heavy or highway type if broken in service will be replaced free of charge f.o.b. our plant upon receipt of broken casting within the period of one year.

Campbell Foundry Co. is a nationally recognized supplier of construction castings and is known for dependable service and ability to deliver promptly long or short runs. Your inquiries would be greatly appreciated.

OUR FORTIETH YEAR

Note—We reserve the right to change the dimensions contained herein at any time.

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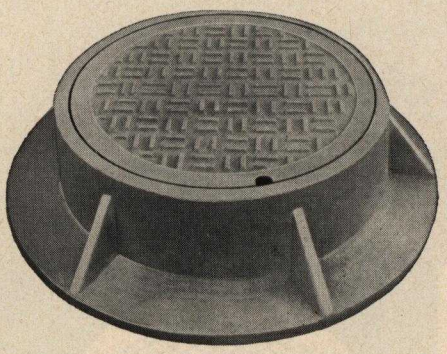
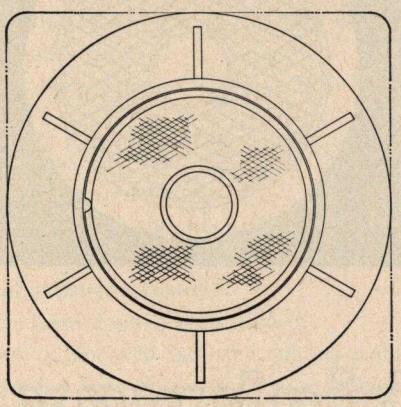
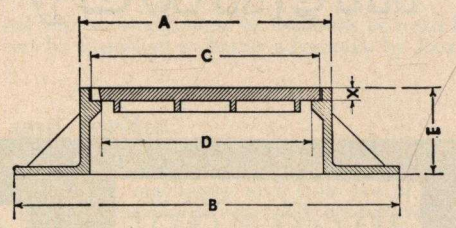
HEAVY
MANHOLE FRAMES AND COVERS

CIRCULAR
● standard frame
round or square flange







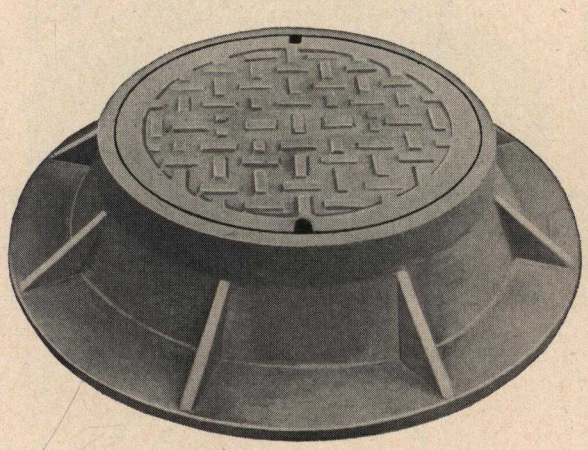
dimensions (inches)						round flange		square flange	
A	B	C	D	E	X	wgt. lbs.	cat. nos.	wgt. lbs.	cat. nos.
14	18	12	11	8	1	120	1000	150	1050
19¾	26	18	16¼	8	1 ¼	240	1001	300	1051
23¾	37	21 ¼	19½	9 ⅝	1 ⅜	400	1002	470	1052
26	40	22 ½	21	10	1 ½	600	1003	680	1053
25	36	22¾	21	9	1¾	495	1004	550	1054
25 ¼	36	23	21½	9	1 ⅜	450	1005	525	1055
27	38 ¼	23¾	22	11	1 ½	600	1006	680	1056
26 ¼	34	24	21¾	8	1 ⅜	450	1007	520	1057
26 ¼	36	24	22	10	1 ⅜	455	1008	525	1058
28	36	25¾	24	8	1 ⅜	460	1009	535	1059
28¾	38 ½	26 ⅜	24½	8	1 ½	665	1010	740	1060
32 ¼	42	30	27¾	8	1 ½	690	1011	770	1061
34	43	32	30	8	1 ½	765	1012	850	1062
38 ½	45	36	34	8	1 ½	870	1013	960	1063
44 ¼	52	42	40	8	2	x	1014	x	1064
50¾	60	48	46	8	2 ½	x	1015	x	1065

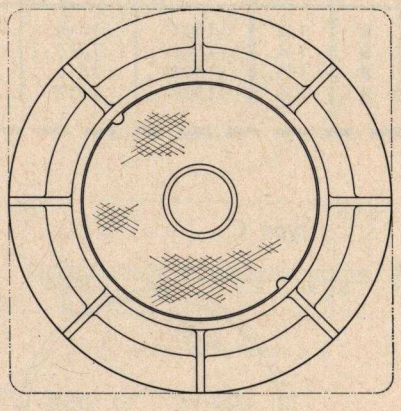
grating type manholes available

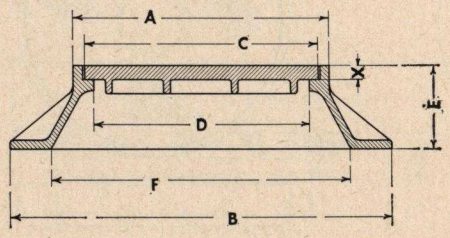
CONSTRUCTION CASTINGS

heavy manhole frames and covers

● flared type
round or square flange

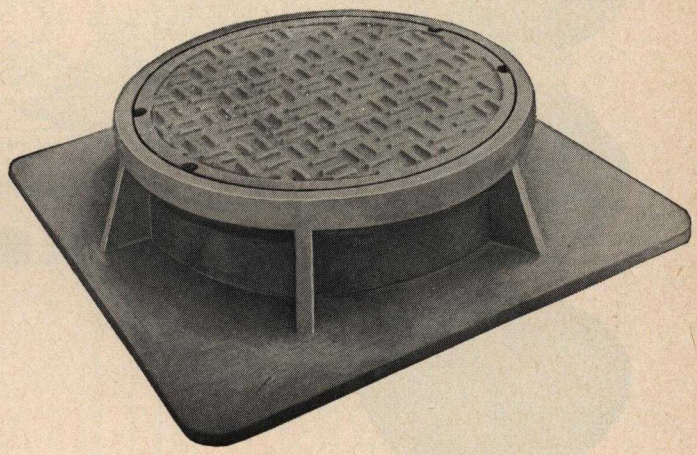


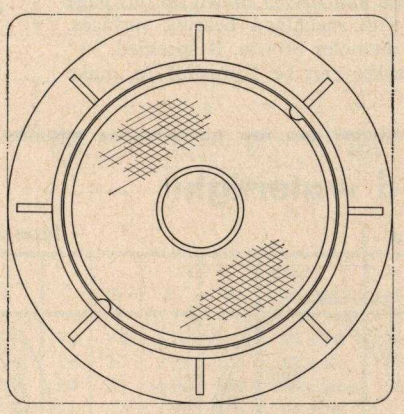


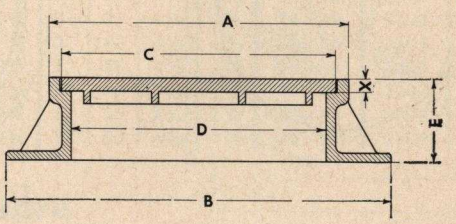


dimensions (inches)							round flange		square flange	
A	B	C	D	E	F	X	wght. lbs.	cat. nos.	wght. lbs.	cat. nos.
24 ¼	40	22 ½	**20¾**	10	30	1 ½	550	1201	630	1226
27 ½	41	25 ⅜	**23**	8	31	2	525	1202	600	1227
28	40	25¾	**24**	8	32	1 ⅜	480	1203	565	1228
28	43 ½	25¾	**24**	10	34 ½	1 ⅜	600	1204	680	1229
31	44	28¾	**27**	10	37 ½	1 ⅜	735	1205	825	1230
34	49	31¾	**30**	10	40	1 ⅜	840	1206	950	1231
40	53	37¾	**36**	10	46	1 ½	1050	1207	1200	1232

● bell and utility type
round or square flange







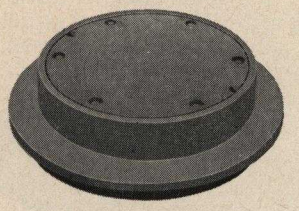
dimensions (inches)						round flange		square flange	
A	B	C	D	E	X	wght. lbs.	cat. nos.	wght. lbs.	cat. nos.
25¾	31	23¾	**22**	8	2 ½	390	1102	460	1127
26 ¼	38	24	**22¼**	9	1 ⅜	510	1103	480	1128
28	36	25¾	**24**	8	1 ⅜	455	1104	545	1129
28	36	25¾	**24**	10	1 ⅜	610	1105	700	1130
31	37	28¾	**27**	8	1 ⅜	660	1106	750	1131
34	40	31¾	**30**	8	1 ⅜	700	1107	780	1132
41	48	37¾	**36**	8	1 ½	950	1108	1100	1133
47	53	44 ¼	**42**	8	1 ½	1265	1109	1355	1134

HEAVY MANHOLE FRAMES AND COVERS

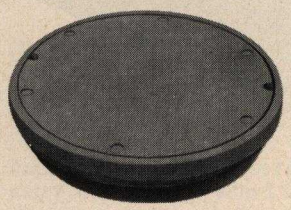
CIRCULAR

● bolted

type A

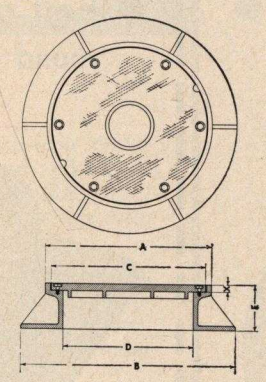


type B

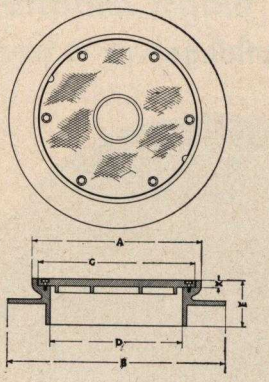


type C

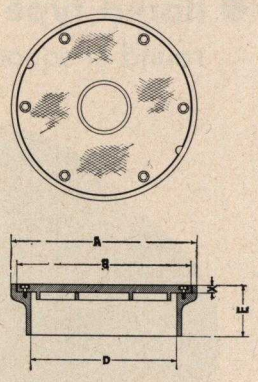
type A



type B



type C

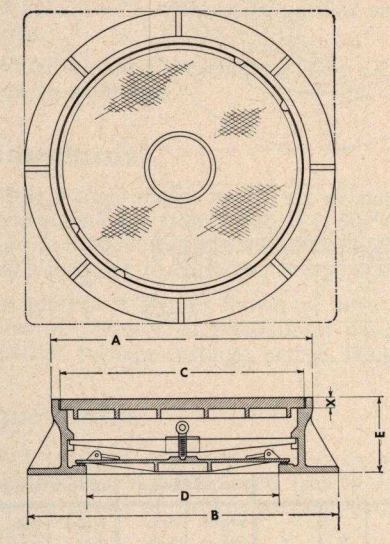


Manhole frames and covers shown on this page are supplied with machined bearing surfaces. Bolts are ½" diameter bronze. If specified, ¼" flat rubber gasket can be furnished to make watertight.

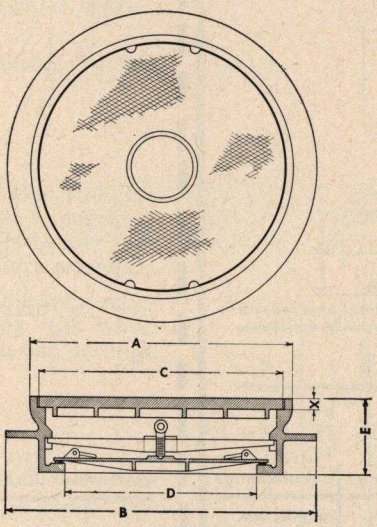
dimensions (inches)						catalog numbers		
A	B	C	D	E	X	type A	type B	type C
24	28	21 7/8	**18**	8	1 ¼	1501	1514	1526
30	34	27¾	**24**	8	1 ¼	1502	1515	1527
36	40	33¾	**30**	8	1 ½	1503	1516	1528
42	46	39¾	**36**	8	1 ½	1504	1517	1529

● locked watertight

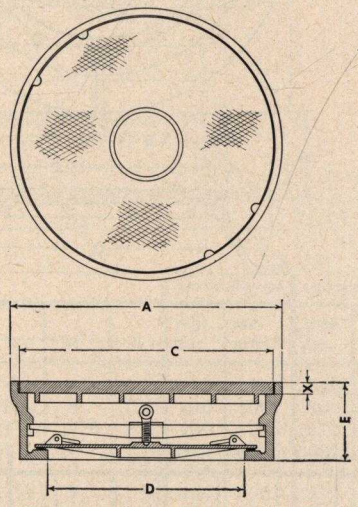
type A



type B



type C

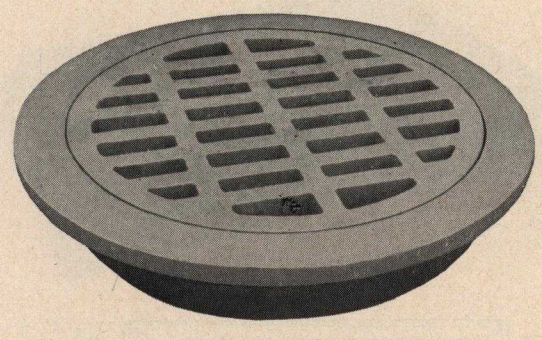


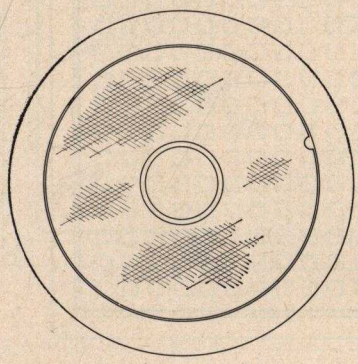
Castings shown are equipped with bronze locking screw, forged steel lock bar, lock clamp and gasket.

dimensions (inches)						catalog numbers			
						type A			
A	B	C	D	E	X	round flange	square flange	type B	type C
28	36	25¾	**21**	8	1 ⅜	1538	1550	1563	1575
34	40	31¾	**24**	8	1 ⅜	1539	1551	1564	1576
34	40	31¾	**27**	8	1 ⅜	1540	1552	1565	1577
41	48	37¾	**30**	8	1 ½	1541	1553	1566	1578
47	53	44¼	**36**	8	1 ½	1542	1554	1567	1579

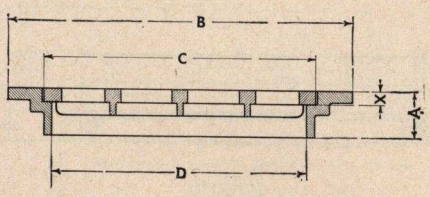
heavy manhole frames and covers

CIRCULAR





solid cover

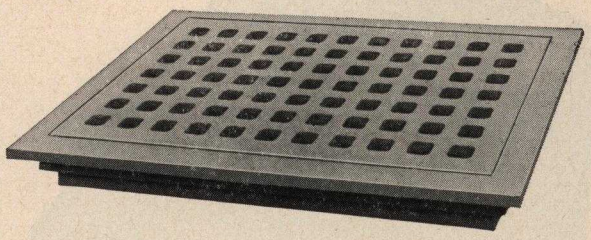


grating

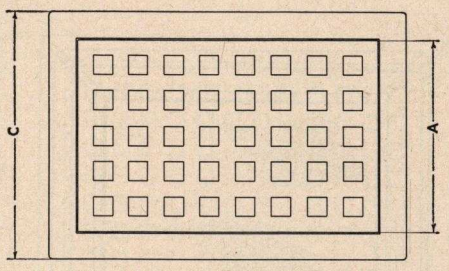
dimensions (inches)				catalog numbers					
				solid cover			grating		
B	C	D	X	A=4½"	6"	8"	A=4½"	6"	8"
16	14	**12**	1	1715	1725	1735	1745	1755	1765
22½	19½	**18**	1	1716	1726	1736	1746	1756	1766
29½	23	**21**	1⅜	1717	1727	1737	1747	1757	1767
32	25¾	**24**	1⅜	1718	1728	1738	1748	1758	1768
39	31¾	**30**	1½	1719	1729	1739	1749	1759	1769
44½	37¾	**36**	1½	1720	1730	1740	1750	1760	1770

NOTE—Larger sizes, weights, and opening areas on request.
* Light frame details and specifications are available on request.

RECTANGULAR • SQUARE

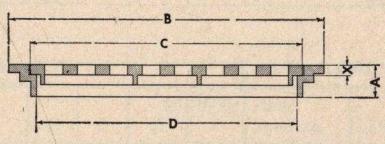


■ rectangular



							catalog numbers	
A	B	C	D	E	X	clear opening	solid	grating
13¾	19¾	18	24	3½	1	**12 x 18**	3300	3325
13¾	25¾	18	30	3½	1	**12 x 24**	3301	3326
19¾	25¾	24	30	4½	1½	**18 x 24**	3302	3327
19¾	31¾	24	37	4½	1½	**18 x 30**	3303	3328
25¾	31¾	31	37	4½	1½	**24 x 30**	3304	3329
25¾	37¾	31	43	4½	1½	**24 x 36**	3305	3330
25¾	49¾	32	56	4½	1½	**24 x 48**	3306	3331
31¾	37¾	37	43	4½	1½	**30 x 36**	3307	3332
31¾	49¾	37	55	4½	1½	**30 x 48**	3308	3333
37¾	49¾	43	55	4½	1½	**36 x 48**	3309	3334

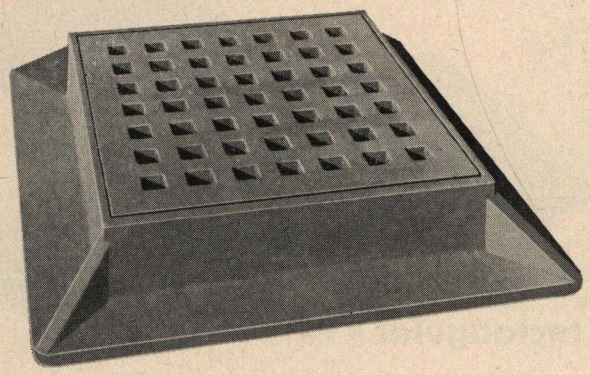
■ square

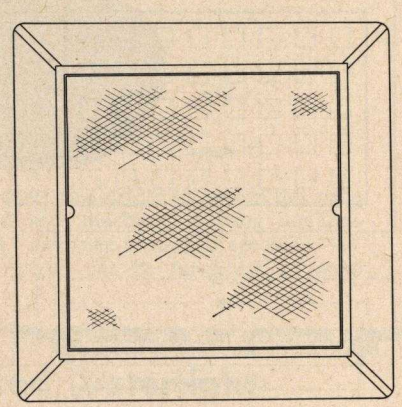


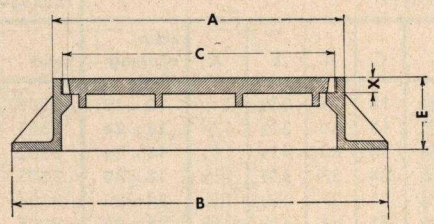
					catalog numbers	
A	B	C	D	X	solid	grating
4½	19	13⅞	**12**	1	3230	3245
4½	24	19¾	**18**	1½	3231	3246
4½	31	25¾	**24**	1¼	3232	3247
4½	37	31½	**30**	1¼	3233	3248
4½	43	37¾	**36**	1½	3234	3249
4½	49	43¾	**42**	1½	3235	3250
4½	55	49¾	**48**	1½	3236	3251

SQUARE FRAMES with grates and covers

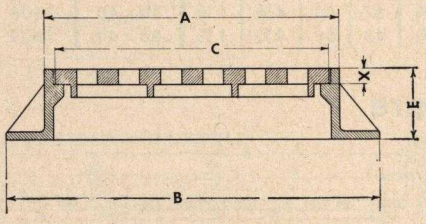
■ heavy design







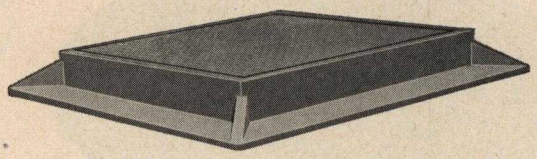
solid

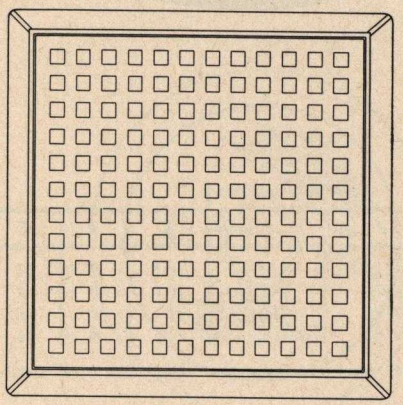


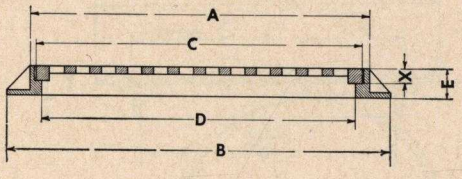
grating

dimensions (inches)					catalog numbers	
A	B	C	E	X	solid	grate
13½	18	**12**	3	1	2900	2913
19½	27	**18**	3	1¼	2901	2914
25¾	33	**24**	4½	1¾	2902	2915
28¾	36	**27**	4½	1¾	2903	2916
31¾	39	**30**	4½	1¾	2904	2917
37¾	45	**36**	4½	1¾	2905	2918

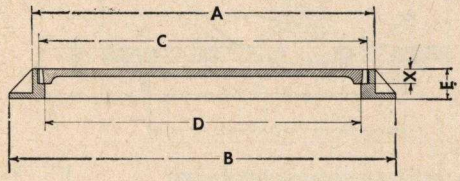
□ light design







grating



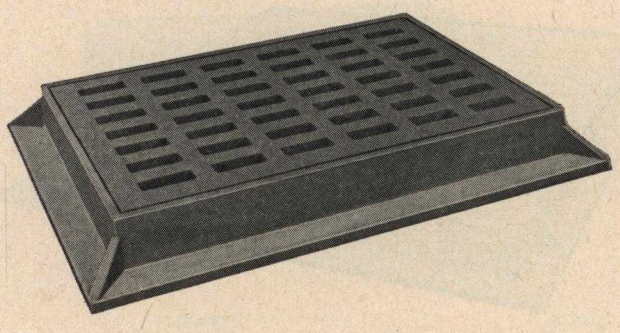
solid

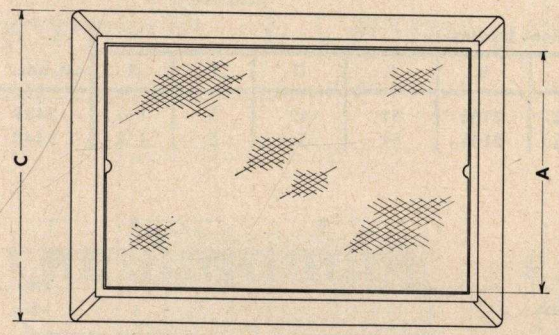
dimensions (inches)							catalog numbers	
A	B	C	D	E	X		solid	grate
10½	14	9¼	**8**	3	1¼		3180	3190
14¾	18	13¼	**12**	3	1½		3181	3191
20½	24	19¾	**18**	3	1½		3182	3192
26¾	30	25¼	**24**	3	1½		3183	3193
32¾	36	31¼	**30**	3	1½		3184	3194
38½	42	37¼	**36**	3	1½		3185	3195
45	48	43¼	**42**	3	1½		3186	3196
51	54	49¾	**48**	3	1½		3187	3197

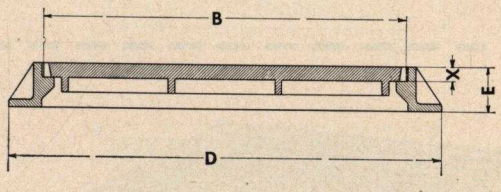
RECTANGULAR FRAMES with grates and covers

6i
Ca

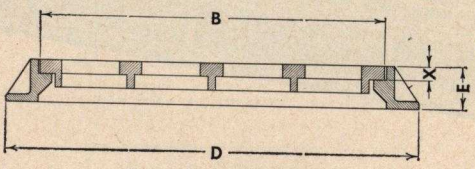
■ heavy design







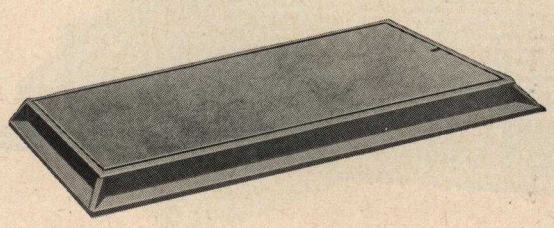
solid

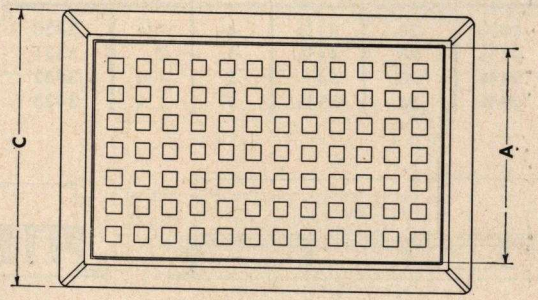


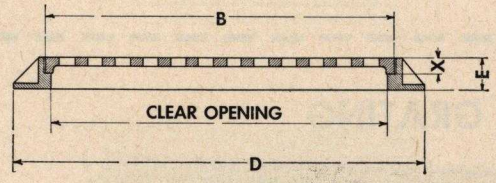
grating

dimensions (inches)						catalog numbers	
A	B	C	D	E	X	solid	grate
12	18	18	24	4	1	3060	3080
12	24	18	30	4	1 ½	3061	3081
18	24	24	30	4	1 ½	3062	3082
18	30	24	36	4	1 ¼	3063	3083
24	30	30	36	4 ½	1 ¼	3064	3084
24	36	31	43	4 ½	1 ½	3065	3085
24	48	31	55	4 ½	1 ½	3066	3086
30	36	36	42	4 ½	1 ½	3067	3087
30	42	36	48	4 ½	1 ½	3068	3088
30	48	38	56	5	1 ½	3069	3089
36	48	42	54	5	1 ½	3070	3090

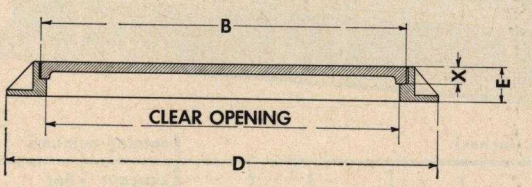
□ light design







grating

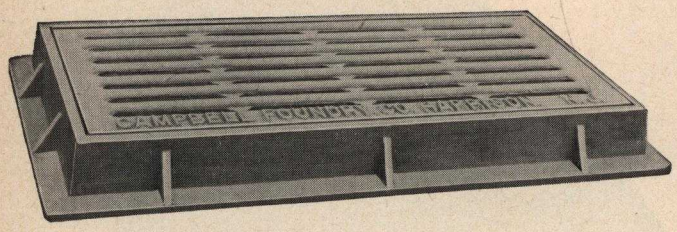


solid

dimensions (inches)						catalog numbers		
A	B	C	D	E	X	clear opening	solid	grate
7 ¼	13 ¼	12	18	3	1 ½	6 x 12	3200	3215
13 ¼	19 ¼	18	24	3	1 ½	12 x 18	3201	3216
13 ¼	25 ¼	18	30	3	1 ½	12 x 24	3202	3217
19 ¾	25 ¾	24	30	3	1 ½	18 x 24	3203	3218
19 ¾	31 ¾	24	36	3	1 ½	18 x 30	3204	3219
25 ¾	31 ¾	30	36	3	1 ½	24 x 30	3205	3220
25 ¼	37 ¼	30	42	3	1 ½	24 x 36	3206	3221
25 ¼	49 ¼	30	54	3	1 ½	24 x 48	3210	3225
31 ¼	37 ¼	36	42	3	1 ½	30 x 36	3207	3222
31 ¼	49 ¼	36	54	3	1 ½	30 x 48	3208	3223
37 ¼	49 ¼	42	54	3	1 ½	36 x 48	3209	3224

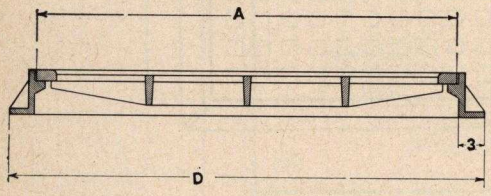
STREAMFLOW GRATING®

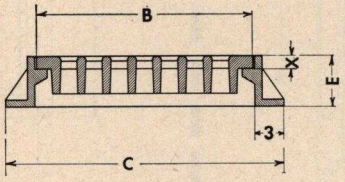
■ single



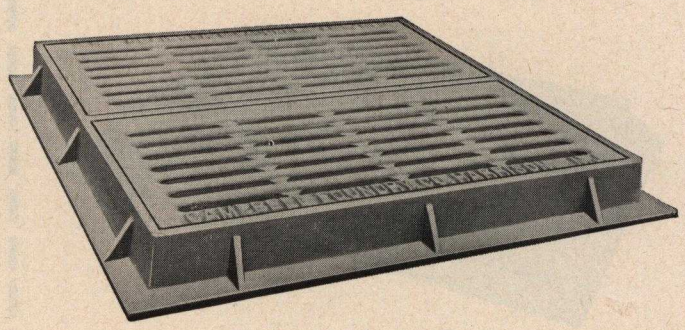
dimensions (inches)

A	B	C	D	E	X	cat. nos.
34⅛	20½	28	41½	4	1¼	3430
38	21⅝	28	44¾	5	2	3431
47¾	21¾	28	54	5	1¼	3432
49¼	29¾	36	55½	5	1¼	3433



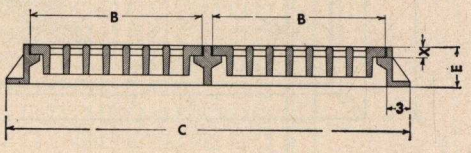


■ double

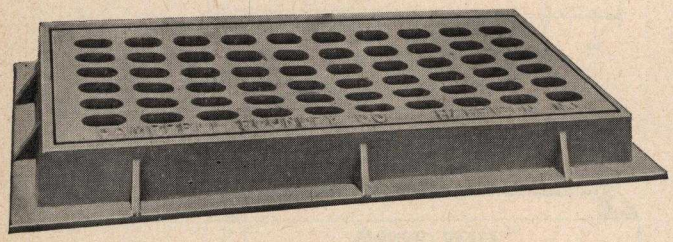


dimensions (inches)

A	B	C	D	E	X	cat. nos.
35¾	21¾	51	42	5	1¼	3439
47¾	21¾	51	54	5	1¼	3440

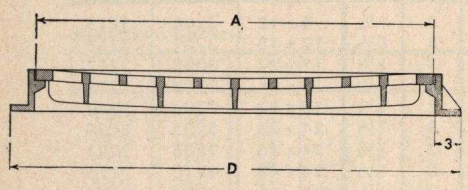


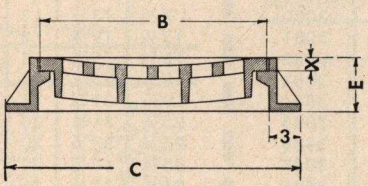
OVAL GRATING

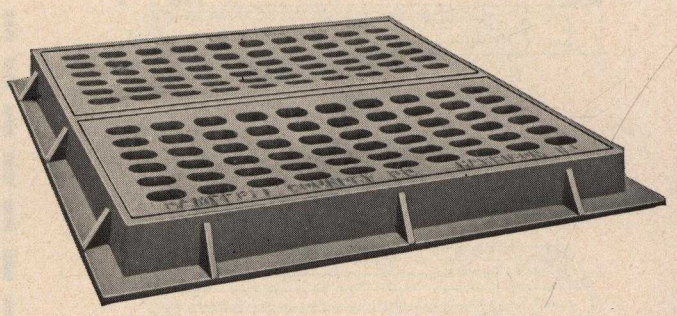


dimensions (inches)

A	B	C	D	E	X	catalog numbers: concave grate	catalog numbers: flat grate
35½	21¾	28	42	5	1¼	3400	3410
38	21⅝	28	44¾	5	2	3401	3411
47¾	21¾	28	54	5	1¼	3402	3412
49¼	29¾	36	55½	5	1¼	3403	3413

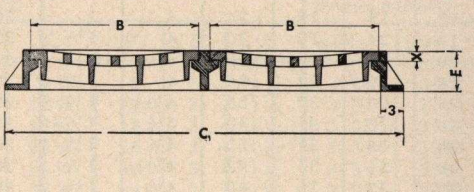






dimensions (inches)

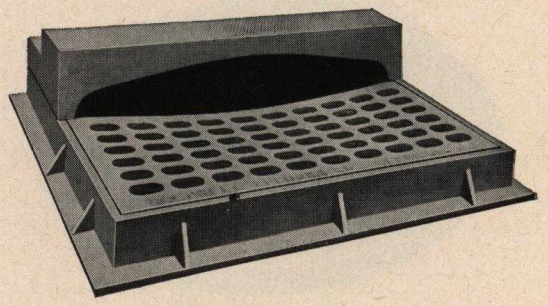
A	B	C	D	E	X	catalog numbers: concave grate	catalog numbers: flat grate
35¾	21¾	51	42	5	1¼	3420	3422
47¾	21¾	51	54	5	1¼	3421	3423

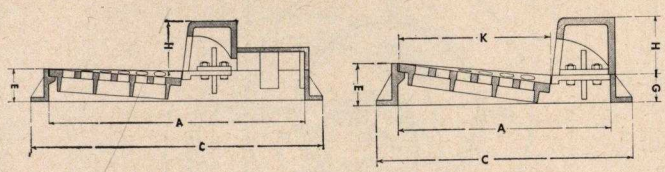


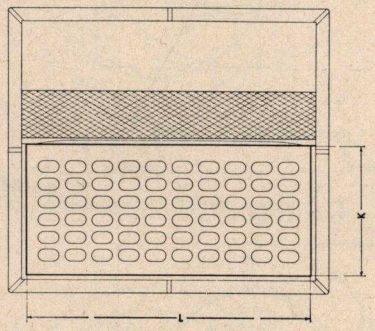
HEAVY CATCH BASIN HEADS

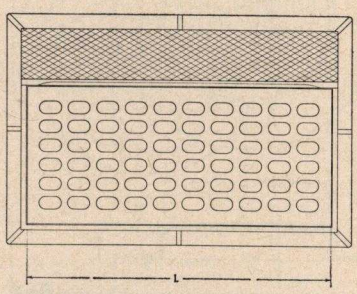
OVAL GRATING

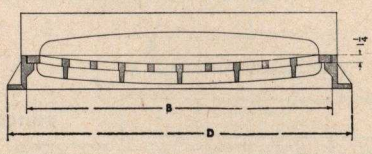
■ **curb type** with and without back plate





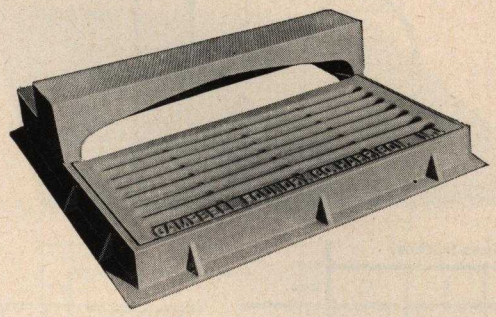


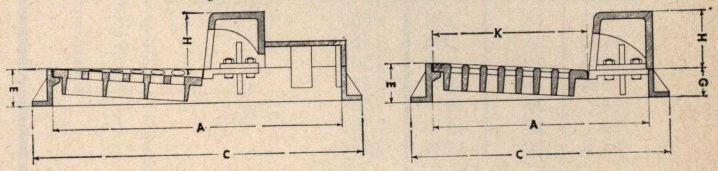


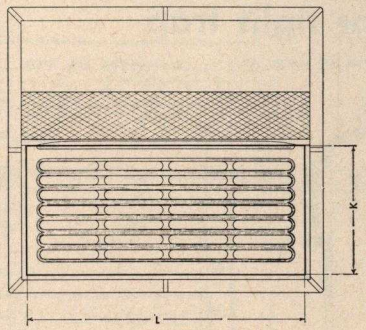


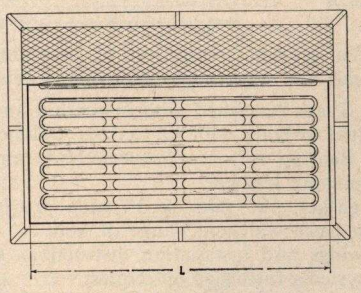
STREAMFLOW GRATING®

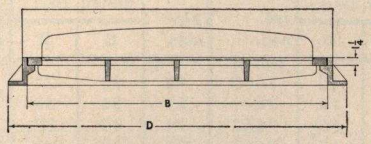
■ **curb type** with and without back plate











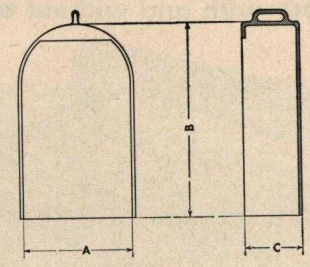
● with backplate dimensions (inches)									catalog numbers oval grate		stream-flow
A	B	C	D	E	G	H	K	L	concave	flat	
27½	25½	36	34	5		8	18½	25¼	2520	2530	2545
30	30	36	36	5½		8	21¾	29¾	2521	2531	2546
36	36	42	42	5½		8	21¾	35¾	2522	2532	2547
42	48	48	54	5½		8	21¾	47¾	2523	2533	2548
● without backplate											
30	36	36	42	5½	4	8	21¾	35¾	2500	2510	2540
30	48	36	54	5½	4	8	21¾	47¾	2501	2511	2541

NOTE—Unless otherwise specified, curb head will be 8″ deep with 1″ batter. When ordering castings other than standard, the following information is required:

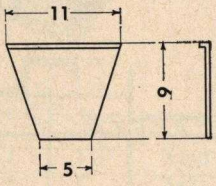
1. Curb Height 2. Batter 3. Radius in feet or straight

CATCH BASIN ACCESSORIES

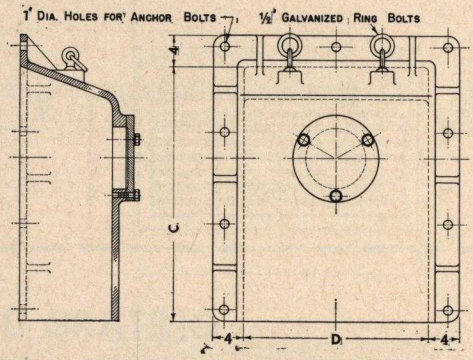
● hood and hook (standard)



dimensions (inches)			cat.
A	B	C	nos.
9½	16	4¾	2560
11½	20½	5½	2561
13¼	23½	6½	2562
15¾	26	7½	2563
18	27	9	2564
20	27	11	2565
25¼	30	11¼	2566



● vapor tight trap



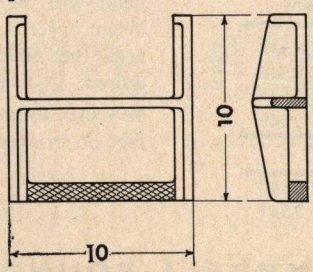
PURPOSE: To prevent infiltration of inflammable or explosive liquids and vapors into drainage systems.

FEATURES: Traps furnished with inspection and clean-out cover bolted to body with ½" x 2½" Stainless Steel Cap Screws. Bearing surfaces between body and cover machined to prevent leakage.
A neoprene gasket, ½" thick x 3" wide provides seal between catch basin wall and flange of body.
Detailed drawings and installation instructions for new and existing systems furnished on request.

pipe size	dimen. (in.) C	dimen. (in.) D	cat. nos.	pipe size	dimen. (in.) C	dimen. (in.) D	cat. nos.
6	20	10	2660	18	33	24	2665
8	22	13	2661	21	36	30	2666
10	24	15	2662	24	40	32	2667
12	26	17	2663	27	43	40	2668
15	30	21	2664	30	46	40	2669

● manhole steps

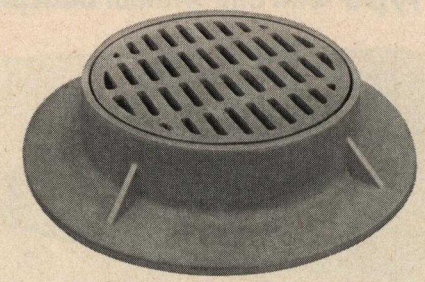
pattern number 2581 shown. Full details and specifications for other types are available on request.

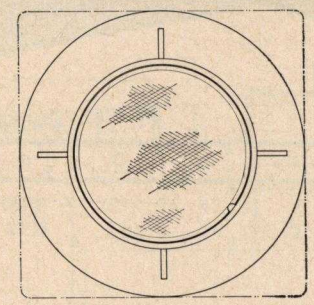


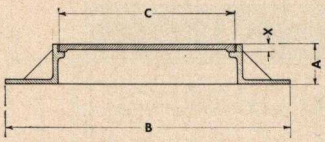
LIGHT SIDEWALK FRAMES

STANDARD TYPE

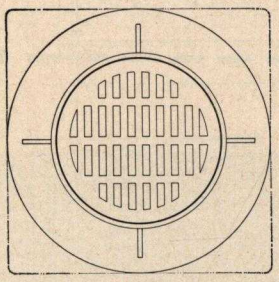
○ circular—round and square flange

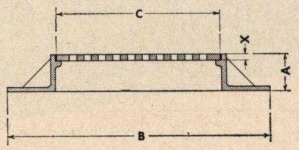




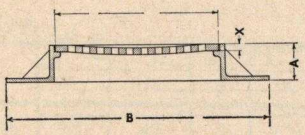


solid





flat



concave

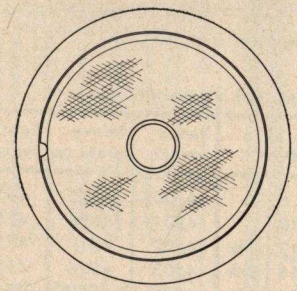
dimensions (inches)				catalog numbers: solid cover		flat grate		concave grate	
A	B	C	X	rd. flg.	sq. flg.	rd. flg.	sq. flg.	rd. flg.	sq. flg.
4	17	12	¾	1300	1313	1350	1363	1400	1413
4	24	18	1	1301	1314	1351	1364	1401	1414
4	32	24	1	1302	1315	1352	1365	1402	1415
6	34	24	1	1303	1316	1353	1366	1403	1416
6	38	30	1	1304	1317	1354	1367	1404	1417
8	45	36	1¼	1305	1318	1355	1368	1405	1418

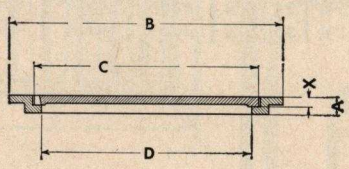
CONSTRUCTION CASTINGS

light sidewalk frames and covers

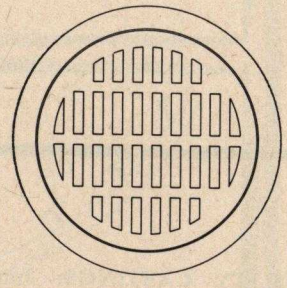
SLAB TYPE

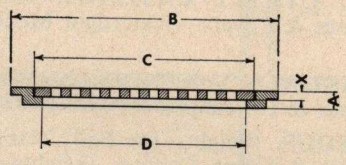
○ circular



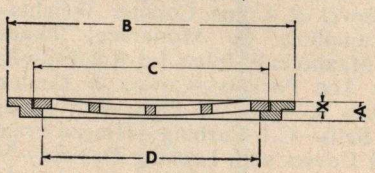


solid





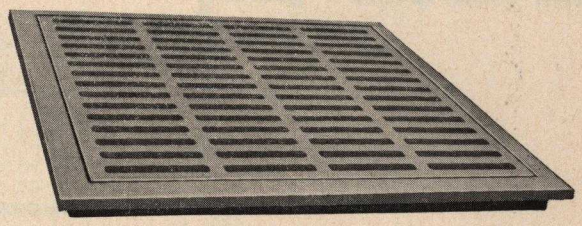
flat

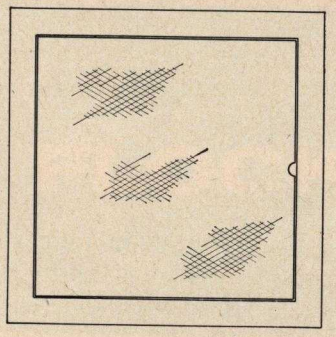


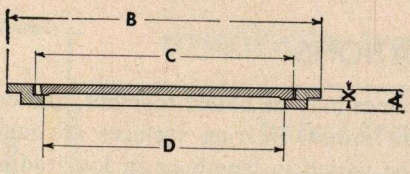
concave

dimensions (inches)					catalog numbers		
A	B	C	D	X	solid cover	flat grate	concave grate
1 ⅞	10	7	6	¾	1325	1375	1425
1 ½	16	13	12	¾	1326	1376	1426
2	22 ½	19	18	1	1327	1377	1427
2	28	25	24	1 ⅛	1328	1378	1428
2	34 ½	31	30	1	1329	1379	1429
2	40	37 ½	36	1	1330	1380	1430

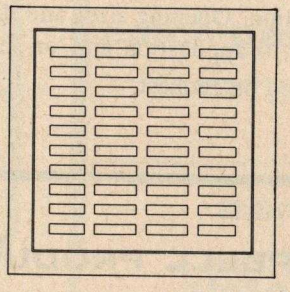
□ square

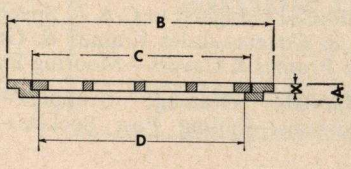




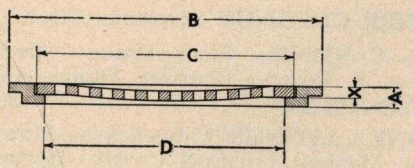


solid





flat



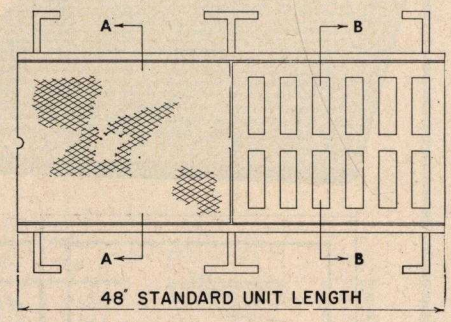
concave

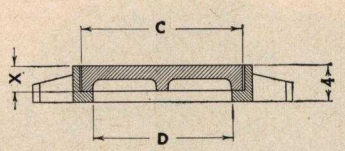
dimensions (inches)					catalog numbers		
A	B	C	D	X	solid cover	flat grate	concave grate
1 ½	10	7	6	¾	1338	1388	1438
1 ½	16	13	12	¾	1339	1389	1439
1 ¾	24	19 ¼	18	1	1340	1390	1440
1 ¾	30	25 ¼	24	1	1341	1391	1441
2	36	31 ⅞	30	1	1342	1392	1442
2	42	37 ¾	36	1 ¼	1343	1393	1443
2 ½	48	43 ¾	42	1 ¼	1344	1394	1444

CAMPBELL

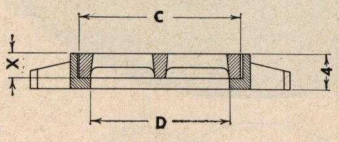
HEAVY AND LIGHT TRENCH FRAMES

with solid covers • grates





section A-A



section B-B

STANDARD DESIGN

For trenches greater than 18 inches in width, covers and grates are made in 2 foot lengths; frames are 4 feet long for all widths. End pieces for frames are furnished when required.

MODIFICATIONS

Adjacent frames may be bolted together, and covers or grates may be bolted in frames. Bearing surfaces are machined if specified. Units may be varied in length or in longitudinal direction to suit almost any field condition. Opening sizes and direction in gratings are variable according to application and/or specification.

Details will be furnished on request.

dimensions (in.)			pattern numbers			
C	D	X	heavy cover	heavy grate	light cover	light grate
7¾	6	2	4500	4525	4550	4575
11¾	10	2	4501	4526	4551	4576
14	12	2¾	4502	4527	4552	4577
19¾	18	2¾	4503	4528	4553	4578
25¾	24	2¾	4504	4529	4554	4579
31¾	30	2¾	4505	4530	4555	4580

OTHER CAMPBELL PRODUCTS

AIRPORT CASTINGS: Designed to C.A.A. Specifications. Manhole Frames & Covers—Inlet Frames & Gratings—Electrical & Water Frames & Covers—Mooring Eyes

BRIDGE CASTINGS: Drainage Scuppers—Counter Weights—C.I. Curbing—Railing Post Sockets—Column Guards

DOCK & PIER CASTINGS: Scuppers—Cleats

BUILDING CASTINGS: Floor Drains—Clean Outs—Vault Frames & Covers—Doorway Drains—Coal Hole Frames, Covers, & Sleeves—Floor Plates—Wheel Guards

WATER LINE CASTINGS: Valve Boxes—Blow Off, Access, & Line Manhole Frame & Covers—Hydrant Drain Bases—Meter Pit Frames & Covers

ELECTRICAL UTILITY CASTINGS: Junction Box, Handhole Frames & Covers—Watertight Manhole Frames & Covers

GAS LINE CASTINGS: Valve Boxes—Meter & Regulator Chamber Frames & Covers

MISCELLANEOUS: Weights for Soil Testing—Caisson Weights—Shovel & Crane Counter Weights—Incinerator Castings—Lamphole & Monument Boxes—Extension Frames for Manholes & Inlets for Roadway Resurfacing—Flush Type Toe Pockets—Covers & Grates to Fit All Standard Sizes & Types of Pipe—Bell or Spigot End—Demolition Balls—C.I. Curbing—Hinged Frames & Covers—Frames & Covers with Locking Devices—Vent Caps

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